Performance Data Sheet

RKA5512CXD

General Information

Model	RKA5512CXD	**Refrigerant**	R-407C
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3140	2880					
	Watts	499	530					
	Amps	2.27	2.39					
	Lb/h	47.3	43.8					
-10	Btu/h	3780	3490	3180				
	Watts	526	562	599				
	Amps	2.38	2.52	2.68				
	Lb/h	53.8	50.4	46.8				
-5	Btu/h	4480	4140	3790	3420			
	Watts	548	590	632	676			
	Amps	2.46	2.64	2.81	3.00			
	Lb/h	61.1	57.8	54.3	50.7			
0	Btu/h	5240	4850	4450	4040	3610		
	Watts	566	614	662	711	761		
	Amps	2.53	2.73	2.94	3.14	3.35		
	Lb/h	69.2	66.0	62.6	59.1	55.4		
5	Btu/h	6060	5620	5170	4710	4240		
	Watts	581	634	688	743	798		
	Amps	2.59	2.81	3.04	3.27	3.51		
	Lb/h	78.1	74.9	71.6	68.2	64.6		
10	Btu/h	6940	6450	5950	5440	4920	4390	3840
	Watts	592	651	710	771	832	894	958
	Amps	2.63	2.88	3.13	3.39	3.65	3.92	4.19
	Lb/h	87.7	84.6	81.4	78.1	74.6	70.9	67.1
15	Btu/h	7890	7350	6790	6230	5670	5080	4490
	Watts	600	664	729	795	862	930	999
	Amps	2.66	2.93	3.21	3.49	3.77	4.07	4.36
	Lb/h	98.2	95.1	92.0	88.7	85.3	81.8	78.0
20	Btu/h	8910	8310	7700	7090	6470	5840	5190
	Watts	604	674	744	816	888	962	1040
	Amps	2.67	2.97	3.27	3.58	3.89	4.20	4.52
	Lb/h	109	106	103	100	96.8	93.3	89.7

25	Btu/h	10000	9350	8680	8010	7330	6650	5950
	Watts	605	681	757	834	911	990	1070
	Amps	2.68	3.00	3.32	3.65	3.99	4.32	4.67
	Lb/h	122	119	115	112	109	106	102
30	Btu/h	11200	10500	9730	9000	8270	7530	6780
	Watts	603	684	766	848	931	1020	1100
	Amps	2.67	3.01	3.36	3.71	4.07	4.43	4.80
	Lb/h	134	131	128	125	122	119	115
35	Btu/h	12400	11600	10900	10100	9270	8470	7670
	Watts	599	685	772	860	948	1040	1130
	Amps	2.65	3.02	3.39	3.77	4.15	4.53	4.92
	Lb/h	148	145	142	139	136	133	129
40	Btu/h	13800	12900	12100	11200	10400	9490	8630
	Watts	592	683	776	869	963	1060	1150
	Amps	2.62	3.01	3.41	3.81	4.21	4.62	5.03
	Lb/h	163	160	157	154	151	147	144
45	Btu/h	15200	14300	13400	12400	11500	10600	9660
	Watts	582	679	776	875	974	1070	1180
	Amps	2.58	2.99	3.41	3.84	4.26	4.70	5.13
	Lb/h	178	175	172	169	166	163	159
50	Btu/h	16700	15700	14700	13700	12800	11800	10800
	Watts	569	672	775	879	983	1090	1200
	Amps	2.53	2.97	3.41	3.86	4.31	4.76	5.22
	Lb/h	195	192	188	185	182	179	176
55	Btu/h	18300	17300	16200	15100	14100	13000	12000
	Watts	555	663	771	880	990	1100	1210
	Amps	2.47	2.93	3.40	3.87	4.34	4.82	5.31
	Lb/h	212	209	206	202	199	196	193

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.128955E+03	1.975486E+02	1.000169E+00	9.285117E+01
C2	2.465381E+02	-5.899001E+00	-2.800598E-02	1.644853E+00
C3	-3.578159E+01	4.639304E+00	1.932550E-02	-2.960147E-01
C4	1.626373E+00	-6.904419E-02	-2.789044E-04	1.777310E-02
C5	-1.244999E+00	1.164926E-01	5.165452E-04	-3.209334E-04
C6	1.831385E-02	-2.127808E-03	-1.062824E-05	2.802979E-04
C7	4.512365E-03	1.956261E-04	9.713698E-07	1.121798E-05
C8	-5.065673E-03	-6.892443E-05	-3.356194E-07	-2.537037E-05
C9	1.626800E-03	-1.852238E-05	-9.511271E-08	1.154952E-05
C10	-2.815249E-04	2.176432E-05	1.088039E-07	-3.463971E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature